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*JUPITER.*

May	I, 21 12	— 16 46	I 37	A.M.	6 39	A.M.	11 41	A.M.
June	I, 21 20	— 16 19	11 42	P.M.	4 45		9 48	
July	I, 21 16	— 16 43	9 41		2 43		7 45	

*SATURN.*

May	I, 19 59	— 20 35	12 39	A.M.	5 26	A.M.	10 13	A.M.
June	I, 19 58	— 20 43	10 37	P.M.	3 23		8 9	
July	I, 19 51	— 21 4	8 33		1 18		6 3	

*URANUS.*

May	I, 17 20	— 23 12	10 7	P.M.	2 43	A.M.	7 19	A.M.
June	I, 17 15	— 23 8	8 4		12 41		5 18	
July	I, 17 10	— 23 2	5 56		10 33	P.M.	3 10	

*NEPTUNE.*

May	I, 5 57	† 22 20	8 3	A.M.	3 23	P.M.	10 43	P.M.
June	I, 6 2	† 22 21	6 4		1 25		8 46	
July	I, 6 6	† 22 21	4 11		11 32	A.M.	6 53	

ECLIPSES OF *JUPITER'S* SATELLITES, P. S. T.

(Off left-hand limb as seen in an inverting telescope.)

I, D, May	7, 4 <sup>h</sup> 56 <sup>m</sup> A.M.	III, D, June	I, 9 <sup>h</sup> 19 <sup>m</sup> P.M.
II, D,	7, 11 55 P.M.	III, R,	2, 12 50 A.M.
I, D,	8, 11 24 P.M.	IV, D,	6, 11 26 P.M.
II, D,	15, 2 29 A.M.	IV, R,	7, 3 59 A.M.
I, D,	16, 1 19 A.M.	I, R,	8, 1 29 A.M.
I, D,	23, 3 12 A.M.	II, D,	8, 11 27 P.M.
I, D,	24, 9 41 P.M.	III, D,	9, 1 19 A.M.
I, D,	31, 11 35 P.M.	III, R,	9, 4 50 A.M.
		I, D,	15, 3 23 A.M.
		II, D,	16, 2 1 A.M.
		I, D,	16, 9 12 P.M.
		II, D,	23, 4 35 A.M.
		IV, R,	23, 10 7 P.M.
		I, D,	23, 11 46 P.M.

APPROXIMATE ELEMENTS OF THE ORBITS OF  
THE COMETS FROM 1896 TO 1901.

By W. J. HUSSEY.

In number 50 of these *Publications* (June, 1896), a number of tables compiled by the late Professor WINLOCK are printed, giving the approximate elements of all computed orbits of comets

from B. C. 372 to A. D. 1896. The following table of the approximate elements of the comets which have appeared during the years 1896 to 1901, inclusive, is intended as a continuation of Professor WINLOCK's first table, and it is arranged in the same manner:—

APPROXIMATE ELEMENTS OF THE ORBITS OF THE COMETS FROM 1896 TO 1902.

Number.	T	$\omega$	$\Omega$	$i$	$q$	$a$	$P$	$e$	Discoverer.
1896	I Jan. 31.8	358°.5	254°.8	155°.9	0.588	....	....	....	PERRINE.
1896	II Mar. 19.3	201.2	209.8	11.3	1.738	3.854	7 <sup>y</sup> .57	0.549	SWIFT.
1896	III April 17.6	1.7	178.3	55.6	0.566	....	....	....	SPERRA.
1896	IV July 10.9	41.0	151.0	88.4	1.142	....	....	....	GIACOBINI.
1896	V Oct. 26.0	139.5	192.1	11.6	1.482	3.500	6.55	0.657	PERRINE.
1896	VI Nov. 4.2	343.8	18.0	6.1	1.959	3.684	7.072	0.669	PERRINE.
1896	VII Nov. 24.6	163.9	246.6	13.7	1.110	3.462	6.441	0.677	PERRINE.
1897	I Feb. 8.1	172.3	86.3	146.1	1.062	....	....	....	PERRINE.
1897	II May 27.3	173.0	146.3	15.7	1.324	3.551	6.691	0.627	PERRINE.
1897	III Dec. 8.8	66.1	32.1	69.6	1.356	....	....	....	PERRINE.
1898	I Mar. 17.4	145.1	262.5	72.5	1.099	....	....	....	PERRINE.
1898	II Mar. 20.4	173.3	100.9	17.0	0.924	3.235	5.818	0.725	GIACOBINI.
1898	III May 27.8	184.0	334.8	12.9	0.341	2.218	3.303	0.846	PERRINE.
1898	IV July 4.6	172.9	206.5	25.2	1.604	3.597	6.821	0.557	CODDINGTON.
1898	V July 25.5	22.4	278.3	166.9	1.501	....	....	....	CHASE.
1898	VI Aug. 16.2	205.6	259.1	70.0	0.627	....	....	....	PERRINE.
1898	VII Sept. 14.1	233.3	74.0	69.9	1.702	....	....	....	BROOKS.
1898	VIII Sept. 20.1	4.6	91.8	22.5	2.269	....	....	....	SWIFT.
1898	IX Oct. 20.5	162.4	34.9	28.9	0.420	....	....	....	PERRINE.
1898	X Nov. 23.2	123.6	96.3	140.4	0.756	....	....	....	BROOKS.
1899	I April 13.0	9.0	25.1	146.3	0.325	....	....	....	SWIFT.
1899	II April 27.7	14.1	331.7	20.8	2.128	3.615	6.90	0.411	GIACOBINI.
1899	III May 4.5	206.7	269.9	54.5	1.024	5.724	13.76	0.822	GIACOBINI.
1899	IV July 28.5	185.6	121.0	12.6	1.389	3.033	5.281	0.542	BROOKS-BORRELLY.
1899	V Sept. 15.0	10.9	272.2	76.9	1.785	....	....	....	GIACOBINI.
1900	I April 29.1	24.6	40.4	146.4	1.329	....	....	....	GIACOBINI.
1900	II Aug. 3.2	12.4	328.0	62.5	1.015	....	....	....	BROOKS-BORRELLY.
1900	III Nov. 28.3	171.5	196.5	29.9	0.934	3.617	6.66	0.742	GIACOBINI.
1901	I April 24.3	203.0	109.6	131.1	0.245	....	....	....	GIACOBINI.
1901	II Sept. 15.3	184.0	334.8	12.9	0.341	2.219	3.303	0.846	(Great Comet).

The abbreviations used in the first column to designate the periodic comets on their return to perihelion are as follows:—

d'A. = d'ARREST'S comet.  
 Bro. = BROOK'S comet.  
 E. = ENCKE'S comet.  
 F. = FAVE'S comet.  
 Ho. = HOLME'S comet.  
 T<sub>2</sub> = TEMPEL'S second periodic comet.  
 Tu. = TUTTLE'S comet.  
 W. = WINNECKE'S comet.  
 Wo. = WOLF'S comet.